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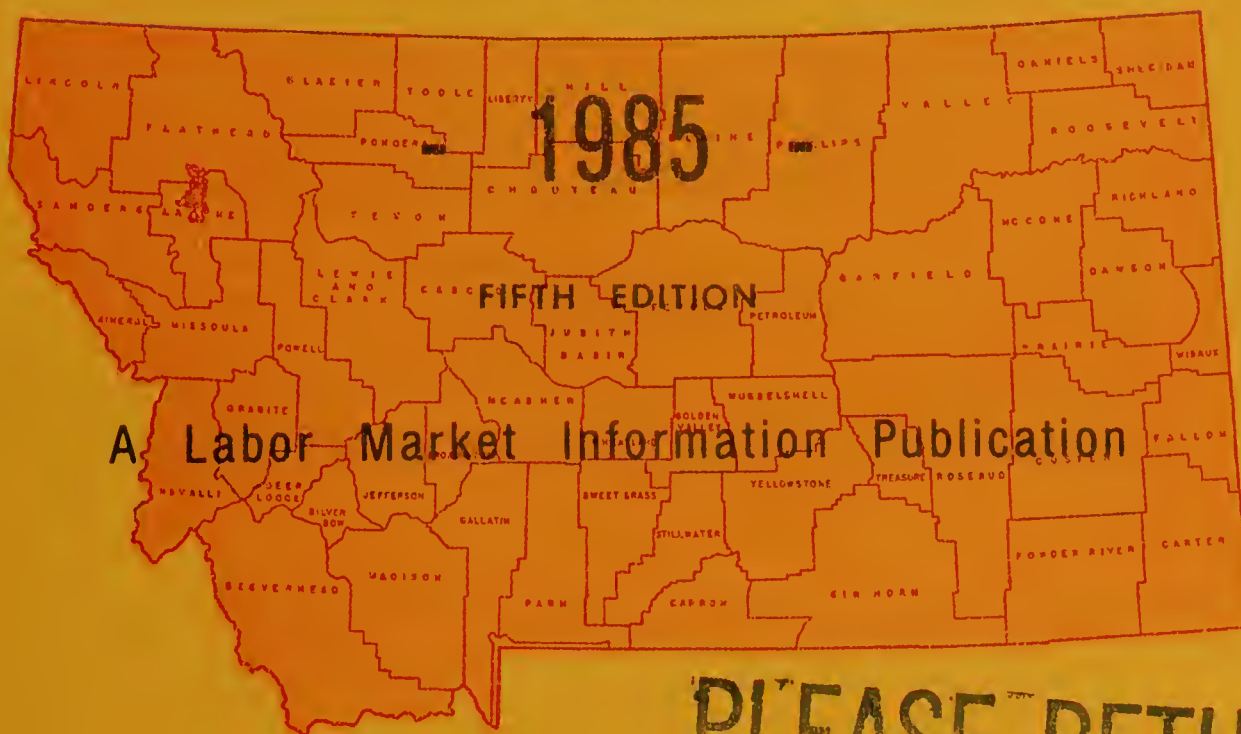
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PART 3: GREAT FALLS STANDARD METROPOLITAN STATISTICAL AREA

INDUSTRY/OCCUPATION PROJECTIONS: 1985

A LABOR MARKET INFORMATION PUBLICATION

STATE OF MONTANA

THOMAS L. JUDGE, GOVERNOR

DEPARTMENT OF LABOR AND INDUSTRY
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in cooperation with
EMPLOYMENT AND TRAINING ADMINISTRATION,
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FIFTH EDITION:

Part 1 State of Montana
Part 2 Billings SMSA
Part 3 Great Falls SMSA

Published July, 1980

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Employment Trends
Great Falls SMSA
1976-1985

I. EMPLOYMENT BY INDUSTRY

Total employment is expected to increase from 30,091 in 1976 to 36,520 in 1985, an increase of 6,429 over the study period. The Great Falls growth between 1976 and 1985 is forecast to be a 21.4 percent increase which is somewhat less than the statewide projected increase of 32.6 percent and Billings SMSA increase of 37.7 percent for the same time period. The rapid growth of the sixties and early seventies is moderating in the Great Falls SMSA.

All industries are expected to increase with the exception of agriculture production for which a decline of about 24 percent is projected, and government which will have basically the same total employment throughout the study period. Numerically, the greatest increase is expected in the wholesale and retail trade industry division, where a net increase of 3,212 is anticipated.

During recent years economic growth and emphasis, with respect to jobs, has shifted away from goods producing industries toward service producing industries. This is indicated in the 1976-1985 Great Falls SMSA anticipated employment change, with service producing industries increasing by about 6,000 and goods producing industries enlarging by 440 in the study time period.

1. Agriculture, Forestry and Fisheries

Agricultural workers, estimated at 1,264 in 1976, are projected to drop to 958 in 1985. Increased mechanization, continuing trend of the vanishing farmer, and improved production

practices lowers the demand for farm workers rather than a depressed industry status situation.

2. Mining

Mining is the smallest goods-producing industry, but potential coal mining expansion exists as nationwide energy demands increase. Projections for 1985 have no definite major coal production forecast, thus the employment change for the study period is minimal.

3. Construction

It is anticipated that the construction industry will increase by 15 percent in the study period, as compared to a statewide increase of 50 percent. The 1985 construction labor force will be about the same size as the peak 1960's labor force.

4. Manufacturing

In the manufacturing sector, which composes only 6 percent of the total employment, a net increase of 419 is expected by 1985. Primary aluminum and food products involve about 2 out of 3 manufacturing workers.

5. Transportation and Public Utilities

The transportation, communication, and public utilities industries expect a 15 percent growth in the study period from 1,891 in 1976 to 2,175 in 1985. Among the larger growth areas are truck services, air transportation, and sanitary services.

6. Finance, Insurance and Real Estate

Employment in the finance, insurance and real estate at 1,905

in 1976 has grown slightly during the past decade and is expected to increase slowly through the mid-1980's, adding about 188. The bulk of expansion will be in the finance industries such as the banking sector.

7. Wholesale and Retail Trade

The wholesale and retail trade employment reveals strong growth, with a 34.4 percent increase from 1976 to 1985. Retail trade will involve 78 percent of this group's total employment in 1985.

8. Service

The service division, with employment at 9,299 in 1976 and expected gains of 2,281 new job openings by 1985, is second only in size to wholesale and retail trade. Areas indicating strong growth include miscellaneous business services, auto repair services, medical services, and legal services.

9. Public Administration

Government employment will have a slight decline, less than 1 percent, from 1976 to 1985. Federal and local government employment anticipates the decline while state government employment will increase slightly.

TABLE I

DISTRIBUTION OF GOODS-PRODUCING AND SERVICE-PRODUCING
INDUSTRIES, 1976 AND 1985
GREAT FALLS SMSA

	1976 EMPLOYMENT	PERCENT	1985 EMPLOYMENT	PERCENT	1976-1985 PERCENT CHANGE
TOTAL ALL INDUSTRIES	30,091	100.0	36,520	100.0	21.4
GOODS-PRODUCING INDUSTRIES	5,346	17.8	5,783	15.9	8.2
Agricultural Production	1,213	4.0	867	2.4	-28.5
Mining	49	0.2	66	0.2	34.7
Contract Construction	2,318	7.7	2,665	7.3	15.0
Manufacturing	1,766	5.9	2,185	6.0	23.7
SERVICE-PRODUCING INDUSTRIES	24,745	82.2	30,737	84.1	24.2
Ag. Services, Forestry, Fisheries	51	0.2	91	0.2	78.4
Trans., Comm., & Public Utilities	1,891	6.3	2,175	6.0	15.0
Wholesale and Retail Trade	9,327	31.0	12,539	34.3	34.4
Fin., Ins., & Real Estate	1,905	6.3	2,093	5.7	9.9
Service	9,299	30.9	11,580	31.7	24.5
Government	2,272	7.6	2,259	6.2	- 0.6

TABLE II

GREAT FALLS SMSA
TOTAL EMPLOYMENT BY INDUSTRY
INDUSTRY LISTING FROM STANDARD
INDUSTRIAL CLASSIFICATION MANUAL

	TOTAL EMPLOYMENT 1976	PROJECTED 1985	1976-1985 PERCENT CHANGE
Total all industries	30,091	36,520	21.37
Agriculture, forestry, fisheries	1,264	958	-24.21
Agriculture	1,264	918	-27.37
Agricultural production	1,213	867	-28.52
Services, exc horticulture	40	40	0.0
Horticultural services	11	11	0.0
Forestry	36	40	11.1
Fisheries	*	*	*
Mining.....	49	66	34.69
Metal Mining	*	*	*
Coal Mining	*	*	*
Crude petroleum and nat ga	*	*	*
Nonmetallic mining, quarryi	38	52	36.84
Construction	2,318	2,665	14.97
General building contracto	713	838	17.53
Gen contractors, exc bld	748	835	11.63
Special trade contractors	857	992	15.75
Manufacturing	1,766	2,185	23.73
Durable goods	985	1,040	5.58
Ordnance	*	*	*
Lumber and wood product	19	30	57.89
Logging	*	*	*
Sawmill, planing mill, mill	19	30	57.89
Misc wood product	*	*	*
Furniture and fixtures	11	18	63.64
Stone, clay, glass product	67	72	7.46
Glass and glass product	*	*	*
Cement, concrete, plaster	40	44	10.00
Structural clay prod	*	*	*
Pottery and related prod	*	*	*
Misc nonmetallic, stone	19	20	5.26
Primary metal industries	690	695	0.72
Blast furnaces, steel wks	*	*	*
Other primary steel	*	*	*
Primary aluminium ind	686	691	0.73
Other primary nonferrous	*	*	*

*Less than ten.

	TOTAL EMPLOYMENT 1976	PROJECTED 1985	1976-1985 PERCENT CHANGE
Fabricated metal prod	73	76	4.11
Cutlery, other hardware	*	*	*
Fabricated metal prod	71	74	4.23
Screw machine prod	*	*	*
Metal stamping	*	*	*
Misc fabricated metal pr	*	*	*
Machinery, exc electrical	35	42	20.00
Engines and turbines	*	*	*
Farm machinery, equip	*	*	*
Construction machines	*	*	*
Metalworking machinery	*	*	*
Office, accounting mach	*	*	*
Electronic computing equ	*	*	*
Machinery, nec	25	30	20.00
Electrical machinery	*	*	*
Household appliances	*	*	*
Radio, TV, commun equip	*	*	*
Electrical machinery, nec	*	*	*
Transportation equip	75	92	22.67
Motor vehicle equip	*	*	*
Aircraft and parts	*	*	*
Ship, boat bldg, repair	*	*	*
Railroad equip	*	*	*
Mobile dwelling	73	89	21.92
Cycles, misc transp equip	*	*	*
Prof, scientif instruments	*	*	*
Scientific instruments	*	*	*
Optical, health serv supp	*	*	*
Photo equip and supplies	*	*	*
Watches and clock device	*	*	*
Misc manufacturing	15	15	0.00
Nondurable goods	781	1,145	46.61
Food and kindred prod	404	705	74.50
Meat products	24	41	70.83
Dairy products	99	172	73.74
Canning and preserving	*	*	*
Grain-mill products	120	210	75.00
Bakery products	99	174	75.76
Confectionary products	*	*	*
Beverage industries	55	97	76.36
Misc food preparation	*	*	*
Tobacco manufacturing	*	*	*
Textile mill products	*	*	*
Knitting mills	*	*	*
Dyeing, finishing textile	*	*	*
Floor coverings	*	*	*
Yarn, fabric mills	*	*	*
Misc text mill products	*	*	*
Apparel, textile products	40	50	25.00
Apparel and accessories	*	*	*
Misc fabricated products	33	41	24.24
Paper and allied products	81	139	71.60
Pulp, paper, paperbd mills	*	*	*
Paperbd containers, boxes	*	*	*
Misc paper and pulp prod	81	139	71.60
Printing and publishing	242	234	- 3.31
Newspaper publ, printing	184	178	- 3.26
Print, publish exc news	58	56	- 3.45
Chemical and allied prod	*	*	*
Industrial chemicals	*	*	*
Plastics, synthetics	*	*	*
Synthetic fibers	*	*	*
Drugs and medicines	*	*	*
Soaps and cosmetics	*	*	*
Paints, varnishes	*	*	*

*Less than ten.

	TOTAL EMPLOYMENT PROJECTED		1976-1985 PERCENT CHANGE
	1976	1985	
Agric chemicals	*	*	*
Misc chemicals	*	*	*
Petroleum and coal prod	*	*	*
Petroleum refining	*	*	*
Misc petrol, coal prod	*	*	*
Rubber, misc plastic prod	*	*	*
Rubber products	*	*	*
Misc plastic prod	*	*	*
Leather products	*	*	*
Leather tanning, finishing	*	*	*
Footwear, exc rubber	*	*	*
All other leather prod	*	*	*
Transportation, other pub uti	1,891	2,175	15.02
Transportation, total	1,162	1,286	10.67
Railroads, railway express	408	331	-18.87
Local, interurban transit	141	160	13.48
Street railways, bus line	94	107	13.83
Taxicab service	47	53	12.77
Trucking and warehousing	512	643	25.59
Trucking services	504	633	25.60
Warehousing and storage	*	*	*
Water transportation	*	*	*
Air transportation	66	90	36.36
Pipelines	*	*	*
Transportation services	35	62	77.14
Communication, util, sanita	729	889	21.95
Communications	460	556	20.87
Telephone (wire & radio)	319	386	21.00
Telegraph, misc commun se	24	29	20.83
Radio broadcasting, TV	117	141	20.51
Utilities, sanitary serv	269	333	23.79
Electric light and power	*	*	*
Electric-gas utilities	*	*	*
Gas, steam supply systems	160	126	-21.25
Water supply	48	47	- 2.08
Sanitary services	55	154	180.00
Other utilities, nec	*	*	*
Wholesale and retail trade	9,327	12,539	34.44
Wholesale trade	2,183	2,753	26.11
Wholesale, exc misc whols	1,297	1,671	28.84
Motore vehicles and equi	246	317	28.86
Drugs, chemicals, allied p	18	24	33.33
Dry goods and apparel	24	31	29.17
Food and related product	260	332	27.69
Farm prod raw material	183	236	28.96
Electical goods	113	146	29.20
Hardware, plumbing	47	61	29.79
Machinery equip, supplies	406	524	29.06
Misc wholesale trade	886	1,082	22.12
Metals and minerals, nec	49	61	24.49
Petroleum products	319	389	21.94
Scrap and waste material	55	66	20.00
Alcoholic beverages	62	76	22.58
Paper and its products	41	50	21.95
Lumber, constr, materials	202	248	22.77
Wholesale, nec	158	192	21.52
Retail trade	7,144	9,786	36.98
Building materials	359	448	24.79

*Less than ten.

	TOTAL EMPLOYMENT 1976	PROJECTED 1985	1976-1985 PERCENT CHANGE
Lumber, bldg material	188	235	25.00
Hardware and farm equip	171	213	24.56
General merchandise, total	935	1,501	60.53
Department, mail order	585	1,034	76.75
Limited price stores	23	38	65.22
Vending machine operator	13	21	61.54
Direct selling	93	113	21.51
Misc merchandise stores	221	295	33.48
Food and dairy stores	1,002	1,383	38.02
Grocery stores	953	1,324	38.93
Dairy prod stores	*	*	*
Retail bakeries	11	9	-18.18
Food stores, nec	36	48	33.33
Auto dealers, gas stations	1,226	1,354	10.44
Motor vehicles dealers	504	563	11.71
Tire, battery accessory	223	253	13.45
Gas service stations	357	379	6.16
Misc vehicle dealers	142	159	11.97
Apparel and accessories	366	451	23.22
Apparel accessories stor	259	317	22.39
Shoe stores	107	134	25.23
Furniture and appliances	208	255	22.60
Home furnishing stores	114	144	26.32
Appliance, TV, radio store	94	111	18.09
Eating and drinking place	2,233	3,413	52.84
Misc retail trade stores	815	981	20.37
Drug stores	126	165	30.95
Liquor stores	28	29	3.57
Farm, garden supply store	108	140	29.63
Jewelry stores	58	68	17.24
Fuel and ice dealers	18	21	16.67
Retail florists	67	84	25.37
Misc retail trade stores	410	474	15.61
Finance, insurance, real estate	1,905	2,093	9.87
Finance, total	872	1,026	17.66
Banking	468	553	18.16
Credit agencies	264	309	17.05
Stock brokers, investment	140	164	17.14
Insurance	626	648	3.51
Real estate, re law insur	407	419	2.95
Services, total	9,299	11,580	24.53
Hotels and lodging places	674	744	10.39
Hotels and motels	503	565	12.33
Lodging places, exc hotel	171	179	4.68
Other personal services	540	527	- 2.41
Laundry, cleaning	124	121	- 2.42
Beauty shops	204	202	- 0.98
Barber shops	66	60	- 9.09
Shoe repair shops	22	22	0.00
Dressmaking shops	17	18	5.88
Other personal services	107	104	- 2.80
Misc business services	577	1,110	92.37
Advertising	58	119	105.17
Business mgmnt services	106	199	87.74
Commercial R & D	12	25	108.33
Computer programming	6	12	100.00
Detective and protective	53	106	100.00
Employment, temp help	12	25	108.33
Services buildings	159	304	91.19
Other misc services	171	320	87.13

*Less than ten.

	TOTAL EMPLOYMENT 1976	PROJECTED 1985	1976-1985 PERCENT CHANGE
Auto repair services	331	480	45.02
Auto repair	249	345	38.55
Auto services, exc repair	82	135	64.63
Other repair services	162	187	15.43
Electrical repair shop	47	60	27.66
Other repair services	115	127	10.43
Motion pictures, theaters	65	88	35.38
Misc entertainment	263	339	28.90
Bowling alleys, billiards	58	80	37.93
Misc entertainment	205	259	26.34
Medical, other health	2,603	3,611	38.72
Offices of physicians	375	525	40.00
Offices of dentists	161	213	32.30
Offices of chiropractors	26	29	11.54
Hospitals	1,608	2,246	39.68
Convalescent institution	359	514	43.18
Health practitioners, nec	27	28	3.70
Health services, nec	47	56	19.15
Legal services	239	305	27.62
Educational services	2,341	2,528	7.99
Elementary, secondary	1,995	2,098	5.16
Colleges and universitie	218	284	30.28
Libraries	37	39	5.41
Educational services, ne	91	107	17.58
Museums, art galleries, zoo	32	36	12.50
Nonprofit organizations	809	831	2.72
Religious organizations	*	*	*
Welfare services	159	167	5.03
Residential welfare	23	24	4.35
Nonprofit membership	625	637	1.92
Private households	*	*	*
Other prof, related service	663	794	19.76
Eng and arch services	147	201	36.73
Accounting, auditing	259	330	27.41
Misc prof services	257	263	2.33
Public Administration	2,272	2,259	- 0.57
Federal public admin	1,624	1,601	- 1.42
Postal services	267	274	2.62
Other public admin	1,357	1,327	- 2.21
State public admin	159	182	14.47
Local public admin	489	476	- 2.66

*Less than ten.

II. OCCUPATIONAL EMPLOYMENT

The Great Falls SMSA occupational makeup is expected to follow the national trend as white-collar (professional, managerial, clerical, and sales) workers will gain 10,824 more jobs than will the blue-collar (craftsmen, operatives, and non-farm laborers) will gain by 1985. Service workers, spurred by continuous expansion of service-producing industries, will experience an upturn of 32 percent over the projection period. Growth of the blue collar classification is projected to be 16 percent, which is lower than the 21 percent rate of increase for all occupations over the study period. White collar workers will represent 56 percent of the total employed figure in 1985 and will gain out 3,631 from 1976 to 1986.

While growth is a good indicator of demand in a certain occupation, more jobs will be available as a result of death, retirement and other labor force separations than from industrial growth. Total annual average job openings will stand at 1,828 over the nine year projection period. Of these openings, 714 will be due to expansion while 1,115 will be openings due to labor force separations. For every 100 jobs resulting from growth, there will be 156 openings from separations. The annual average job openings due to growth in the Great Falls SMSA is about 39 percent of the total openings, which compares (unfavorably) to statewide's 48 percent and Billing SMSA's 51 percent.

TABLE III

DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP
1976 AND PROJECTED 1985
GREAT FALLS SMSA

MAJOR OCCUPATIONAL GROUP	<u>1976</u>		<u>PROJECTED 1985</u>		PERCENT CHANGE 1976-1985
	EMPLOYMENT	PERCENT DISTRIBUTION	EMPLOYMENT	PERCENT DISTRIBUTION	
TOTAL ALL OCCUPATIONS	30,091	100.0	36,520	100.0	21.4
Professional, Technical, and Kindred	4,184	13.9	4,866	13.3	16.3
Managers, Officials, and Proprietors	4,625	15.4	5,663	15.5	22.4
Sales Workers	2,235	7.4	2,798	7.7	25.2
Clerical Workers	5,441	18.1	6,789	18.6	24.8
Craft and Kindred Workers	3,553	11.8	4,122	11.3	16.0
Operatives	2,684	8.9	3,227	8.8	20.2
Service Workers	4,908	16.3	6,475	17.7	31.9
Laborers, Except Farm	1,527	5.1	1,943	5.3	27.2
Farmers and Farm Workers	934	3.1	637	1.7	-31.8

TABLE IV

ANNUAL AVERAGE JOB OPENINGS
1976-1985
GREAT FALLS SMSA

MAJOR OCCUPATIONAL GROUP			
	TOTAL	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS
Total All Occupations	1,828	714	1,115
White-Collar Workers	1,025	404	622
Prof., Technical, and Kindred	206	76	130
Managers, Officials, and Propr.	312	115	197
Sales Workers	153	63	91
Clerical Workers	354	150	204
Blue-Collar Workers	387	169	218
Craft and Kindred Workers	168	63	105
Operatives	133	60	73
Nonfarm Laborers	86	46	40
Service Workers	411	174	237
Farmers and Farm Workers	5	-33	38

TABLE V
ANNUAL AVERAGE JOB OPENINGS
DUE TO GROWTH AND TO LABOR FORCE
SEPARATIONS BY SELECTED OCCUPATIONS
GREAT FALLS SMSA
1976-1985

	<u>ANNUAL AVERAGE JOB OPENINGS</u>		
	<u>TOTAL JOB OPENINGS</u>	<u>OPENINGS DUE TO GROWTH</u>	<u>OPENINGS DUE TO SEPARATION</u>
TOTAL ALL OCCUPATIONS	1,828	714	1,114
Professional, technical, and kindred	206	76	130
Engineers, technical	10	5	5
Engineers, science technicians	8	5	3
Medical workers, exc tech.	44	22	22
Registered nurses.	27	11	16
Health technol and tech.	14	8	6
Clinical lab technol, tech	10	6	4
Technicians, exc health.	10	5	5
Teachers	42	0	42
Elementary school teachers	29	5	24
Secondary school teachers.	5	-6	11
Writers, artists, entertainers	22	11	11
Musicians and composers.	7	4	3
Other professional, technical.	51	17	34
Accountants.	22	8	14
Lawyers.	9	3	6
Personnel labor relations.	4	2	2
Managers, officials, proprietors	312	115	197
Buyers, sales, loan managers	53	32	21
Bank, financial managers	14	8	7
Sales manager, retail trade.	19	14	6
Sales manager, exc ret trade	8	6	2
Administrators, pub inspectors	25	5	20
Health administrators.	7	3	4
Inspectors, exc construct pub.	6	2	5
Other managers, officials, props	234	78	156
Mgrs, superintendants, bldg.	10	2	8
Office managers, nec	11	5	6
Officials of lodges, unions.	8	-2	10
Restaurant, cafe, bar mgrs	19	9	10
Other mgrs, administrators	184	65	119
Sales workers.	153	63	90
Advertising agents, sales wrks	10	6	4
Insurance agents, brokers, etc	8	1	7
Real estate agents, brokers.	13	2	11
Sales workers, nec	114	53	61
Clerical workers	354	150	204
Stenographers, typists, secre.	97	40	57

	<u>TOTAL JOB OPENINGS</u>	<u>OPENINGS DUE TO GROWTH</u>	<u>OPENINGS DUE TO SEPARATION</u>
Other clerical workers	254	110	143
Bookkeepers.	41	13	28
Cashiers	47	28	19
Counter clerks, exc food	17	6	11
Estimators, investigators, nec	11	5	6
Receptionists.	17	7	10
Shipping, receiving clerks	9	4	5
Statistical clerks	5	2	3
Stock clerks, store keepers.	5	2	3
Teachers aides, exc monitors	15	9	6
Misc clerical workers, nec	45	30	15
 Crafts and kindred workers	 167	 63	 104
Construction crafts workers.	54	22	32
Carpenters	25	8	17
Excavating, grading, mach opr.	8	4	4
Plumbers and pipefitters	6	3	3
 Blue collar worker supvr, nec.	 24	 8	 15
Mechanics, repairers, installers	54	25	29
Auto mechanics	18	8	10
Farm implement mechanics	7	4	3
Heavy equip mech, incl deisel.	7	2	5
 Other crafts, kindred workers.	 28	 8	 20
Decorators, window dressers.	7	4	3
 Operatives	 133	 60	 73
 Operatives, exc transport.	 90	 42	 48
Semiskilled packing, inspecting.	10	5	5
Packer, wrapper, ex meat, produce.	8	4	4
 Other operatives, exc transport.	 79	 37	 42
Garage wrkrs, gas station atten.	7	3	4
Laundry, dry cleaning oprs, nec.	9	4	5
Misc mach operatives	13	8	5
Operatives, nec.	22	11	11
 Transport equipment operatives	 43	 18	 26
Delivery and route workers	15	10	5
Truck drivers.	20	10	10
 Service workers.	 411	 174	 237
Cleaning service workers	78	26	52
Lodging quartrs cleaners exc pr.	17	9	8
Bldg interior cleaners, nec.	28	8	20
Janitors and sextons	33	8	25
 Food service workers	 204	 105	 99
Bartenders	36	17	19
Cooks, exc private	70	35	35
Food counter, fountain workers	16	10	6
Walters.	59	32	27
 Health service workers	 58	 27	 31
Health aides, except nursing	9	6	3

	<u>TOTAL JOB OPENINGS</u>	<u>OPENINGS DUE TO GROWTH</u>	<u>OPENINGS DUE TO SEPARATION</u>
Nurses aides, orderlies.	30	12	18
Practical nurses	16	8	8
Personal service workers	61	14	47
Child care workers, exc private.	34	16	18
Housekeepers, exc private.	10	-1	11
Protective and service workers	11	2	9
Guards	7	2	5
Laborers, except farm.	86	46	40
Gardenrs, groundkeepr, exc farm.	13	3	10
Stock handlers	25	16	9
Vehicle washers, equip cleaners.	8	4	4
Warehouse laborers, nec.	8	4	4
Farmers and farm workers	5	-33	38
Farmers and farm managers.	13	-13	26
Farmers (owners and tenants)	7	-16	23
Farm managers.	5	2	3
Farm laborers, farm supervisors.	-7	-20	13
Farm laborers, wage wrkrs.	-7	-18	11

TABLE VI

TOTAL EMPLOYMENT BY OCCUPATION
GREAT FALLS SMSA

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
TOTAL ALL OCCUPATIONS	30,088	36,513	21.4
Professional, technical, and kindred	4,184	4,866	16.3
Engineers, technical	269	317	17.8
Engineers, aero-astronautic	*		
Engineers, chemical	9	14	55.6
Engineers, Civil	94	92	- 2.1
Engineers, electrical	62	75	21.0
Engineers, industrial	39	51	30.8
Engineers, mechanical	24	36	50.0
Engineers, metallurgical	15	21	40.0
Engineers, mining	*		
Engineers, petroleum	*		
Engineers, sales	14	14	0.0
Engineers, other	12	14	16.7
Life and physical scientists	69	67	- 2.9
Agricultural scientists	13	17	30.8
Atmospheric, space scientists	42	36	14.3
Biological scientists	*		
Chemists	*		
Geologists	11	11	0.0
Marine scientists	*		
Physicists and astronomers	*		
Life, physical scientists nec	*		
Mathematical specialists	*		
Actuaries	*		
Mathematicians	*		
Statisticians	*		
Engineers, science technicians	179	226	26.3
Agri biolog tech exc health	34	47	38.2
Chemical technicians	13	18	38.5
Drafters	39	51	30.8
Electrical, electronic tech	50	61	22.0
Industrial engineering tech	*		
Mathematical techn	*		
Mechanical engineering tech	*		
Surveyors	35	40	14.3
Engineering, science tech nec	*		
Medical workers, exc tech	618	817	32.2
Chiropractors	*		
Dentists	54	68	25.9
Dietitians	11	18	63.6
Optometrists	*		
Pharmacists	17	22	29.4
Physicians, MD osteopaths	98	142	44.9
Podiatrists	*		
Registered nurses	370	471	27.3
Therapists	39	56	43.6
Veterinarians	*		
Other medical and health	*		

** less than ten"

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Health technol and tech	194	266	37.1
Clinical lab technol, tech	121	174	43.8
Dental hygienists	*		
Health record technol, tech	*		
Radiologic technol, tech	27	38	40.7
Therapy assistants	*		
Other health technol, tech	43	51	18.6
Technicians, exc health	237	280	18.1
Airplane pilots	27	43	59.3
Air traffic controllers	160	178	11.3
Embalmers	*		
Flight engineers	*		
Radio operators	19	27	42.1
Tool programers, numerical	*		
Other technicians exc health	31	32	3.2
Computer specialists	48	55	14.6
Computer programers	26	32	23.1
Computer systems analysis	22	23	4.6
Other computer specialists	*		
Social scientists	40	60	50.0
Economists	*		
Political scientists	*		
Psychologists	11	17	54.6
Sociologists	*		
Urban and regional planners	29	43	48.3
Other social scientists	*		
Teachers	1,209	1,208	- 0.1
Adult education teachers	10	12	20.0
College and univ teachers	50	47	- 6.0
Elementary school teachers	590	636	7.8
Preschool, kindergarten	50	61	22.0
Secondary school teachers	422	370	-12.3
Teachers nec, exc coll, univer	87	82	- 5.8
Writers, artists, entertainers	366	463	26.5
Actors	*		
Athletes and kindred workers	45	51	13.3
Authors	*		
Dancers	*		
Designers	15	19	26.7
Editors and reporters	43	50	16.3
Musicians and composers	98	132	34.7
Painters and sculptors	42	40	- 4.8
Photographers	11	10	- 9.1
Public relations specialist	65	110	69.2
Radio, TV announcers	29	35	20.7
Writers, artists, entertain nec	18	16	-11.1
Other professional, technical	955	1,107	15.9
Accountants	371	445	19.9
Architects	30	43	43.3
Archivists and curators	*		
Clergy	*		
Religious, exc clergy	11	22	100.0
Farm management advisors	12	3	-72.7
Judges	*		
Lawyers	144	171	18.8
Librarians	57	53	- 7.0
Operations, systems research	*		
Personnel labor relations	107	124	15.9
Research workers, nec	15	15	0.0
Recreation workers	41	48	17.1
Social workers	95	94	- 1.1
Vocational, ed counselors	42	46	9.5

"* less than Ten"

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Managers, officials, proprietors	4,625	5,663	22.4
Buyers, sales, loan managers	700	987	41.0
Bank, financial managers	225	293	30.2
Credit managers	50	54	8.0
Buyers, shippers, farm products	12	19	58.3
Buyers, wholesale, retail	38	61	60.5
Purchasing agents, buyers, nec	20	29	45.0
Sales manager, retail trade	207	329	58.9
Sales manager, exc ret trade	148	202	36.5
Administrators, pub inspectors	446	493	10.5
Assess, control, loc pub admin	19	16	-15.8
Construction inspector, pub	12	12	0.0
Health administrators	101	132	30.7
Inspectors, exc construct pub	86	100	16.3
Officials, admins, pub	116	107	- 7.8
Postmasters and mail super	*		
School admin, college	29	33	13.4
School admin, elem, secondary	76	86	13.2
Other managers, officials, props	3,479	4,183	20.2
Funeral directors	11	9	-18.2
Mgrs, superintendents, bldg	61	75	22.9
Office managers, nec	152	194	27.6
Officers, pilots, pursers, ship	*		
Officials of lodges, unions	234	220	- 6.0
Railroad conductors	19	20	5.3
Restaurant, cafe, bar mgrs	260	337	29.6
Other mgrs, administrators	2,742	3,328	21.4
Sales workers	2,235	2,798	25.2
Advertising agents, sales wrks	64	119	85.9
Auctioneers	8	8	0.0
Demonstrators	21	25	19.1
Hucksters and peddlers	80	92	15.0
Insurance agents, brokers, etc	233	238	2.2
Newspaper carrier and vendor	43	34	-20.9
Real estate agents, brokers	157	177	12.7
Stock and bond sales agents	57	54	- 5.3
Sales workers, nec	1,572	2,051	30.5
Clerical workers	5,441	6,789	24.8
Stenographers, typists, secre	1,482	1,844	24.4
Secretaries, legal	61	91	49.2
Secretaries, medical	30	57	90.0
Secretaries, other	1,079	1,396	29.4
Stenographers	100	53	-47.0
Typists	212	247	16.5
Office machine operators	207	199	3.9
Bookkeeping, billing operators	27	41	51.8
Calculating machine operators	*		
Computer, peripheral equip	102	107	4.9
Duplicating machine operators	*		
Key punch operators	75	46	-38.7
Tabulating machine operators	*		
Other office machine operators	*		
Other clerical workers	3,752	4,746	26.5
Bank tellers	101	111	9.9
Billing clerks	50	76	52.0

"* less than ten"

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Bookkeepers	736	847	15.1
Cashiers	494	748	51.4
Clerical assist, soc welfare	*		
Clerical supervisors, nec	114	109	- 4.4
Collectors, bill and account	66	77	16.7
Counter clerks, exc food	167	217	29.9
Dispatcher, starter, vehicle	41	44	7.3
Enumerators and interviewers	86	48	-44.2
Estimators, investigators, nec	157	204	29.9
Expeditors, prod controllers	17	31	82.4
File clerks	31	36	16.1
Insurance adjust, examiners	61	63	3.3
Library attendants, assistant	82	79	- 3.7
Mail carriers, post office	99	107	8.1
Mail handler, exc post office	18	19	5.6
Messengers and office helpers	13	12	- 7.7
Meter readers, utilities	*		
Payroll, time keeping clerks	21	25	19.1
Postal clerks	90	86	- 4.4
Proofreaders	*		
Real estate appraisers	33	34	3.0
Receptionists	244	306	25.4
Shipping, receiving clerks	138	179	29.7
Statistical clerks	104	116	11.5
Stock clerks, store keepers	94	115	22.3
Teachers aides, exc monitors	158	239	51.3
Telegraph messengers	*		
Telegraph operators	*		
Telephone operators	149	148	- 0.7
Ticket station, express agents	42	53	26.2
Weighers	13	19	46.2
Misc clerical workers, nec	322	588	82.6
 Crafts and kindred workers	 3,553	 4,122	 16.0
Construction crafts workers	1,041	1,240	19.1
Carpenters	449	524	16.7
Brickmasons and stonemasons	46	53	15.2
Bulldozer operators	17	24	41.2
Cement and concrete finishers	28	43	53.6
Electricians	90	107	18.9
Excavating, grading, mach opr	177	210	18.6
Floor layers, exc tile setters	*		
Painters, construction, maint	75	84	12.0
Paperhangers	*		
Plasterers	*		
Plumbers and pipefitters	102	125	22.6
Roofer and slaters	*		
Structural metal craft workers	31	44	41.9
Tilesetters	17	18	5.9
 Blue collar worker supvr, nec	 479	 555	 15.9
Blue collar worker supvr, nec	*		
 Metalworking craft wrkrs exc mec	 102	 111	 8.8
Blacksmiths	*		
Boilermakers	10	10	0.0
Heat treaters, annealers, etc	*		
Forge and hammer operators	*		
Job and die setters, metal	*		
Machinists	38	40	5.3
Millwrights	*		
Molders, metal	*		
Pattern and model makers	*		
Rollers and finishers, metal	*		

"* less than ten"

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Sheet metal workers, tinsmiths	47	53	12.8
Tool, die makers	*		
Mechanics, repairers, installers	1,141	1,366	19.7
Air cond, heating, refrig mech	23	38	65.2
Aircraft mechanics	28	35	25.0
Auto accessories installers	*		
Auto body repairers	91	108	18.7
Auto mechanics	393	465	18.3
Data processing mach repairers	17	52	205.9
Farm implement mechanics	84	118	40.5
Heavy equip mech, incl diesel	223	243	8.9
Household appliance mechanics	45	53	17.8
Mechanics, repairers, installers	1,141	1,366	19.7
Loom fixers	*		
Office machine repairers	35	51	45.7
Radio, television repairers	54	59	9.3
Railroad, car shop repairers	31	24	-22.6
Other mechanics and apprentice	111	115	3.6
Printing trade crafts workers	99	82	-17.2
Bookbinder	*		
Compositors and typesetters	62	45	-27.4
Electrotypers, stereotypers	*		
Engravers exc photoengravers	*		
Photoengravers, lithographers	6	6	0.0
Printing press operators	25	26	4.0
Transportation, pub util craft	137	146	6.6
Elec pwr line installer, reprs	14	10	-28.6
Locomotive engineers	18	19	5.6
Locomotive engineer helpers	*		
Power station operators	*		
Telephone installers, repairers	70	82	17.1
Telephone line instaln, splicer	28	31	10.7
Other crafts, kindred workers	554	622	12.3
Bakers	86	102	18.6
Cabinetmakers	*		
Carpet installers	*		
Crane, derrick, and hoist opr	57	61	7.0
Decorators, window dressers	77	116	50.7
Dental laboratory tech	20	24	20.0
Furniture and wood finishers	*		
Furriers	*		
Glaziers	14	21	50.0
Inspectors, log and lumber	*		
Inspectors, other	39	40	2.6
Jewelers and watchmakers	*		
Millers, grain, flour, feed	11	22	100.0
Motion picture projectionists	*		
Opticians, lens grindr, polishr	14	18	28.6
Piano, organ tuners, repairers	*		
Shipfitters	*		
Shoe repairers	19	19	0.0
Sign painters and letterers	*		
Stationary engineers	133	93	-30.1
Other crafts, kindred workers	554	622	12.3
Stone cutters, stone carvers	*		
Tailors	*		
Upholsterers	13	13	0.0
Crafts, kindred workers, nec	39	48	23.1

"* less than ten"

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Operatives	2,684	3,227	20.2
Operatives, exc transport	1,630	2,015	23.6
Semiskilled metalworking	54	60	11.1
Drill press operatives			
Furnace tendrs, smeltrs. pourers	*		
Grinding machine operatives	*		
Heaters, metal	*		
Lathe, milling mach operatives	*		
Metal platers	*		
Other precision mach operators	*		
Punch stamping press operative	*		
Solderers	*		
Welders and flame cutters	41	46	12.2
Semiskilled textile	13	13	0.0
Carding, lapping, combing oprs	*		
Knitters, loopers, and toppers	*		
Spinners, twistrs, winders	*		
Weavers	*		
Other textile operatives	*		
Semiskilled packing, inspecting	140	186	32.9
Checkers, examiners, etc, mfg	11	15	36.4
Graders and sorters, mfg	*		
Meat wrappers, retail trade	*		
Packer, wrapper, ex meat, produce	109	145	33.0
Prod grdr, packer, exc fact, farm	14	18	28.6
Other operatives, exc transport	1,423	1,756	23.4
Asbestos, insulation workers	*		
Assemblers	30	44	46.7
Blasters	*		
Bottling, canning operatives	14	24	71.4
Surveyor helpers	14	14	0.0
Clothing ironers and pressers	27	27	0.0
Cutting operatives, nec	75	88	17.3
Dressmakers, exc factory	54	60	11.1
Drillers, earth	*		
Dry wall installers, lathes	25	42	68.0
Oyers	*		
Other operatives, exc transport	1,423	1,756	23.4
Filer, polisher, sander, buffer	*		
Garage wrkrs, gas station atten	207	233	12.6
Laundry, dry cleaning oprs, nec	88	126	43.2
Meat cutters, butchers, exc mfg	75	85	13.3
Meat cutters, butchers	9	17	88.9
Milleners	*		
Mine operatives, nec	13	16	23.1
Mixing operatives	*		
Oilers, greasers, exc auto	28	22	-21.4
Painters, mfg articles	13	17	30.7
Photographic process workers	13	21	61.5
Riveters and fasteners	*		
Sailors and deckhands	*		
Sawyers	*		
Sewers and stitchers	41	51	24.4
Shoemaking machine operatives			
Furnace tendr, stokr exc metal	*		
Winding operatives, nec	*		
Misc mach operatives	212	288	35.9
Operatives, nec	463	559	20.7
Transport equipment operatives	1,054	1,212	15.0
Boat operators	*		
Bus drivers	150	109	-27.3

"* less than ten"

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Conductors and opr, urban rail	*		
Delivery and route workers	249	345	38.6
Fork lift, tow motor operatives	21	37	76.2
Rail vehicle operators, nec	*		
Parking attendant	30	35	16.7
Railroad brake operators	20	19	- 5.0
Railroad switch operators	33	27	-18.2
Taxicab drivers, chauffeurs	32	29	- 9.4
Truck drivers	518	610	17.7
Service workers	4,905	6,468	31.9
Cleaning service workers	839	1,070	27.5
Lodging quartrs cleaners exc pr.....	126	207	64.3
Bldg interior cleaners, nec	312	386	23.7
Janitors and sextons	401	477	11.0
Food service workers	2,216	3,159	42.6
Bartenders	375	527	40.5
Waiters assistants	93	128	37.6
Cooks, exc private	631	942	49.3
Dishwashers	104	131	26.0
Food counter, fountain workers	141	235	66.7
Waiters	689	973	41.2
Food workers, nec, exc private	183	223	21.7
Health service workers	672	918	36.6
Dental assistants	26	44	69.2
Health aides, except nursing	74	124	67.6
Health trainees	*		
Lay midwives	*		
Nurses aides, orderlies	420	530	26.2
Practical nurses	149	220	47.6
Personal service workers	897	1,024	14.2
Flight attendants	*		
Atten, recreation, amusement	84	83	- 1.2
Atten, personal service, nec	43	44	2.3
Baggage porters and bellhops	*		
Barbers	116	105	- 9.5
Boarding, lodging housekeepers	*		
Bootblacks	*		
Child care workers, exc private	263	406	54.4
Elevator operators	*		
Hairdressers, cosmetologists	269	259	- 3.7
Housekeepers, exc private	58	66	13.8
School monitors	*		
Ushers, recreation, amusement	*		
Welfare service aides	42	44	4.8
Protective and service workers	281	297	5.7
Crossing guard, bridgetenders	*		
Firefighters	68	60	-11.8
Guards	53	72	35.9
Marshals and constables	*		
Police and detectives	112	123	9.8
Sheriffs and bailiffs	48	42	-12.5
Private household workers	*		
Child care workers	*		
Cooks, private	*		
Housekeepers, private	*		
Private household workers	*		
Launderers, private household	*		
Pri household cleaners, servants	*		

"*less than ten"

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Laborers, except farm	1,527	1,943	27.2
Animal caretakers, exc farm	30	32	6.7
Carpenters, helpers	38	35	- 7.9
Constr labr, exc carpenter help	204	224	9.8
Fishers, hunters and trappers	*		
Freight, material handlers	172	219	27.3
Garbage collectors	46	46	0.0
Gardenrs, groundkeepr, exc farm	116	143	23.3
Longshore workers, stevedores	*		
Timbercutting, logging workers	*		
Stock handlers	396	540	36.4
Teamsters	*		
Vehicle washers, equip cleaners	142	182	28.2
Warehouse laborers, nec	302	334	10.6
Other laborers	72	80	11.1
 Farmers and farm workers	 934	 637	 -31.8
Farmers and farm managers	489	370	-24.3
Farmers (owners and tenants)	453	313	-30.9
Farm managers	36	57	58.3
Farm laborers, farm supervisors	445	267	-40.0
Farm labor supervisors	32	28	-12.5
Farm laborers, wage wrkrs	385	222	-42.3
Farm laborers, unpaid family	*		
Farm laborers, self-empl	19	9	-52.6

"*less than ten"

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500 copies of this publication were produced at a unit cost of \$.544 per copy, for a total cost of \$272.00 which includes \$230.00 for printing and \$42.00 for distribution.